



United States Patent and Trademark Office



60

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/080,640	02/21/2002	Peter E. von Behrens	26625-1002	26625-1002 8160	
23419	7590 01/30/2004		EXAMINER		
COOLEY GODWARD, LLP			NGUYEN, HOANG M		
	AMINO REAL LTO SQUARE		ART UNIT PAPER NUMBER		
	O, CA 94306		3748		
			DATE MAILED: 01/30/2004	17/	

Please find below and/or attached an Office communication concerning this application or proceeding.

			W		
•	Application No.	Applicant(s)			
Advisory Action	10/080,640	VON BEHRENS ET AL.			
Advisory Action	Examin r	Art Unit			
	Hoang M Nguyen	3748			
Th MAILING DATE of this communication app	ars on the cov r sheet with the	correspond nc add	ress		
THE REPLY FILED 20 January 2004 FAILS TO PLACE Therefore, further action by the applicant is required to final rejection under 37 CFR 1.113 may only be either: condition for allowance; (2) a timely filed Notice of Apple Examination (RCE) in compliance with 37 CFR 1.114.	avoid abandonment of this appli (1) a timely filed amendment whi	cation. A proper re ich places the appli	ply to a cation in		
PERIOD FOR R	EPLY [check either a) or b)]				
a) The period for reply expires 3 months from the mailing date of this Ace event, however, will the statutory period for reply expire later to ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The drawe been filed is the date for purposes of determining the period of exte 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortene b) above, if checked. Any reply received by the Office later than three meanned patent term adjustment. See 37 CFR 1.704(b).	dvisory Action, or (2) the date set forth in the han SIX MONTHS from the mailing date on SILED WITHIN TWO MONTHS OF THE late on which the petition under 37 CFR 1.7 insion and the corresponding amount of the ed statutory period for reply originally set in	of the final rejection. E FINAL REJECTION. \$ 136(a) and the appropriate exercible. The appropriate exercible final Office action; or	See MPEP e extension fee tension fee under (2) as set forth in		
1. A Notice of Appeal was filed on Appellant 37 CFR 1.192(a), or any extension thereof (37 CI					
2. The proposed amendment(s) will not be entered	because:				
(a) \(\square\) they raise new issues that would require furt	her consideration and/or search	(see NOTE below);			
(b) they raise the issue of new matter (see Note	below);				
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mat	terially reducing or	simplifying the		
(d) they present additional claims without cance NOTE:	eling a corresponding number of	finally rejected clain	ms.		
3. Applicant's reply has overcome the following reje	ection(s): 102 rejection based on	Honma reference.			
 Newly proposed or amended claim(s) woul canceling the non-allowable claim(s). 	d be allowable if submitted in a s	separate, timely file	d amendment		
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request f application in condition for allowance because: n		sidered but does No	OT place the		
6. The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection.	ecause it is not directed SOLELY	to issues which we	ere newly		
	For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.				
The status of the claim(s) is (or will be) as follows	5 :				
Claim(s) allowed:					
Claim(s) objected to:					
Claim(s) rejected:					
Claim(s) withdrawn from consideration:	•				
8. \square The drawing correction filed on is a) \square ap	The drawing correction filed on is a) approved or b) disapproved by the Examiner.				
Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s).					
10. Other:		NON I AL	129/24		
•		•			

Hoang M Nguyen Primary Examiner Art Unit: 3748 Application/Control Number: 10/080,640

Art Unit: 3748

Applicant's request for reconsideration dated January 20, 2004, has been fully considered.

First, Applicant is reminded that claimed subject matter must be interpreted as broad as possible. The Examiner understands that the claimed recesses are 74, 84, and 814 as noted by Applicant. Also, on page 16, lines 26-30, and lines 1-14, page 17, of this application clearly describes that "the rigid member acts as a heat sink", and "Because the recess 74 cut into the rigid member at each end of edge 73, the heat transfer from the wire to the plate through the air will be decreased at these ends". Basically, Applicant simply recites a recess in a heat sink with the heat transfer decreasing at the ends (note claim 1 for example).

Gummin et al reference teaches a heat sink 41 with holes (recesses) for the SMA wires 36 going through. Please note said holes are near the proximity of the wire at the central portion of the wire because the central portion of the wires 36 are inside the holes (or recesses), the ends of the wires are far away from the ends of the holes (notes figures 1-2 of Gummin). Because the claims simply recite a recess with heat transfer reducing at two ends, the Gummin et al reference clearly meet the claim limitation.

The MacGregor reference is similar to Gummin et al, Figure 7 of MacGregor shows a heat sink 77 having a recess therein, the SMA wires have both ends located

Application/Control Number: 10/080,640 Page 3

Art Unit: 3748

far away from said recess when compared with the central portion of the wires. Hence, MacGregor meets the claimed subject matter as claimed.

Applicant argues that Jacob does not disclose SMA wires. The Examiner disagrees, even though Jacob does not use the term "SMA wires", his bimetal elements 20, 22, are expanded when heated and contracted when cooled, that is the basis concept of SMA wires.

Applicant's arguments against Honma that the housing in Honma cannot be considered as "elongate member". The Examiner agrees, and the rejections based on Honma will be withdrawn if this application is reopen for prosecution or going to the Board of Appeal.

Art Unit: 3748

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (703) 308-3477. The examiner can normally be reached on Monday--Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (703)-308-2623. The fax phone number for the Examiner is (703) 872-9302 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0861.

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748 Page 4

Hoang Minh Nguyen 1/29/04